

DERWENT-ACC-NO: 1981-02018D  
DERWENT-WEEK: 198103  
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TITLE: Isomerisation of isolated double bonds in  
1,3-diene polymers - into  
conjugated double bonds by heating with an alkali  
alcoholate as isomerisation  
catalyst

PATENT-ASSIGNEE: CHEM WERKE HUELS AG[CHEM]

PRIORITY-DATA: 1980DE-3003894 (February 2, 1980) ,  
1979DE-2924598 (June 19,  
1979)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
BE 883894 A	December 18, 1980	N/A
000	N/A	
AT 8003216 A	September 15, 1981	N/A
000	N/A	
DE 3003894 A	August 13, 1981	N/A
000	N/A	
FR 2459251 A	February 13, 1981	N/A
000	N/A	
GB 2054606 A	February 18, 1981	N/A
000	N/A	
JP 56004616 A	January 19, 1981	N/A
000	N/A	
SE 8004531 A	January 26, 1981	N/A
000	N/A	

INT-CL (IPC): C08C019/10; C08F008/48 ; C08F036/02

ABSTRACTED-PUB-NO: BE 883894A

BASIC-ABSTRACT: Isolated double bonds in 1,3-diene  
homopolymers and/or  
copolymers, are isomerised into conjugated double bonds at  
temps. of up to 250  
deg.C in the presence of an alkali alcoholate as  
isomerisation catalyst and  
opt. in a solvent.

Pref. isomerisation catalysts are Na and/or K salts of monohydric 1-20C (cyclo)aliphatic alcohols. The isomerisation may be carried out at 0-150 deg.C in the presence of a highly polar aprotic cpd. such as DMF, DMSO or N-methylpyrrolidone, in addn. to the catalyst.

The process is esp. useful for treatment of relatively low mol.wt. polybutadienes to give prods. contg. a high proportion of cis-1,4 units, with a low gel content and low alkali metal ion content. The prods. have improved drying properties and are esp. useful in the prodn. of coating compsns.

TITLE-TERMS:

ISOMER ISOLATE DOUBLE BOND DI ENE POLYMER CONJUGATE DOUBLE BOND HEAT ALKALI ALCOHOLATE ISOMER CATALYST

ADDL-INDEXING-TERMS:

POLYDIENE

DERWENT-CLASS: A12

CPI-CODES: A04-B01A; A10-E;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0037 0040 0043 0046 0049 0052 0214 0224 0229  
2022 2039 2065 2198  
2207 2583 2584 2585 2718 1059 1060 1093 1097 1100 1104 0306  
1095  
Multipunch Codes: 011 03- 034 06- 075 09& 09- 10& 10- 117  
15& 17& 231 250 263  
276 351 359 44& 477 575 583 585 587 588 589 688 689 724 011  
03- 039 06- 075 09&  
09- 10& 10- 117 122 123 15& 17& 231 250 263 276 351 359 44&  
477 575 583 585 587  
588 589 688 689 724 011 03- 034 055 056 06- 075 09& 09- 10&  
10- 117 122 15& 17&  
231 250 263 27& 276 351 359 44& 477 575 583 585 587 588 589  
689 724